

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S6	6	clutch\$4 and (motor or actuator) and (open\$4 or (full\$2 adj2 open\$4)) and (clos\$4 or (full\$2 adj2 clos\$4)) and (tim\$4) and distanc\$4 and frequency and (door or barrier) and (((dis\$2 adj2 engag\$4) or disengag\$4 or detach\$4 or disconnect or releas\$4 or separat\$4 or uncouple or unfasten) near4 clutch) and ((engag\$4 or attach\$4 or connect\$4 or coupl\$4 or fasten\$4) near4 clutch) and ((fail\$4 or error or fault\$4 or malfunction\$4) ) and (door or barrier).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 16:40
S10	29	clutch\$4 and (motor or actuator) and (open\$4 or (full\$2 adj2 open\$4)) and (clos\$4 or (full\$2 adj2 clos\$4)) and (tim\$4) and distanc\$4 and (door or barrier) and (((dis\$2 adj2 engag\$4) or disengag\$4 or detach\$4 or disconnect\$4 or releas\$4 or separat\$4 or uncouple or unfasten) near4 clutch) and ((engag\$4 or attach\$4 or connect\$4 or coupl\$4 or fasten\$4) near4 clutch) and ((fail\$4 or error or fault\$4 or malfunction\$4) same (clutch or door or barrier)) and (door or barrier).ab. and ((energiz\$4 or activat\$4 or power\$4 or start\$4 or actuat\$4) near4 (motor or actuator)) and ((stop\$4 or deenergiz\$4 or (de\$2 adj2 energiz\$4) or deactivat\$4 or deactuat\$4) near4 (motor or actuator))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 17:25
S13	13	clutch\$4 and (motor or actuator) and (open\$4 or (full\$2 adj2 open\$4)) and (clos\$4 or (full\$2 adj2 clos\$4)) and (tim\$4) and ((sens\$4 or detect\$4 or monitor\$4) near4 (position or distanc\$4)) and (door or barrier) and (((dis\$2 adj2 engag\$4) or disengag\$4 or detach\$4 or disconnect\$4 or releas\$4 or separat\$4 or uncouple or unfasten) near4 clutch) and ((engag\$4 or attach\$4 or connect\$4 or coupl\$4 or fasten\$4) near4 clutch) and ((fail\$4 or error or fault\$4 or malfunction\$4) same (clutch or door or barrier)) and (door or barrier).ab. and ((energiz\$4 or activat\$4 or power\$4 or start\$4 or actuat\$4) near4 (motor or actuator)) and ((stop\$4 or deenergiz\$4 or (de\$2 adj2 energiz\$4) or deactivat\$4 or deactuat\$4) near4 (motor or actuator)) and (equal\$4 or (equal\$2 adj2 to) or ((greater\$2 or more\$2 or longer\$2 or higher\$2) adj2 than) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 18:04
S15	13	clutch\$4 and (motor or actuator) and (open\$4 or (full\$2 adj2 open\$4)) and (clos\$4 or (full\$2 adj2 clos\$4)) and (tim\$4 or period or interval) and ((sens\$4 or detect\$4 or monitor\$4) near4 (position or distanc\$4 or travel\$4)) and (door or barrier or closure or (clos\$2 adj2 member)) and (((dis\$2 adj2 engag\$4) or disengag\$4 or detach\$4 or disconnect\$4 or releas\$4 or separat\$4 or uncouple or unfasten) near4 clutch) and ((engag\$4 or attach\$4 or connect\$4 or coupl\$4 or fasten\$4) near4 clutch) and ((fail\$4 or error or fault\$4 or malfunction\$4) same (clutch or door or barrier)) and (door or barrier or closure or (clos\$2 adj2 member)).ab. and ((energiz\$4 or activat\$4 or power\$4 or start\$4 or actuat\$4) near4 (motor or actuator)) and ((stop\$4 or deenergiz\$4 or (de\$2 adj2 energiz\$4) or deactivat\$4 or deactuat\$4) near4 (motor or actuator)) and (equal\$4 or (equal\$2 adj2 to) or ((greater\$2 or more\$2 or longer\$2 or higher\$2) adj2 than) ) and ((tim\$4 or period or interval) near4 (position or distance or travel\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 18:41
S18	38	door and motor and power and ((motor or power) same door) and ((suv or (sports\$2 adj2 utility\$2 ) ) adj2 vehicle)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 18:45
S20	32	door and motor and power and ((motor or power) same door) and ((suv or (sports\$2 adj2 utility\$2 ) ) adj2 vehicle) and (tim\$4 or period or interval)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 18:47
S27	41	(closure or door or barrier) and (actuator or motor) and ((electric\$4 or energiz\$4 or power\$4) near4 (closure or barrier or door)) and (pivot or verticle or vertical or overhead) and (tim\$4 or period or interval) and (automobile or vehicle) and ((sens\$4 or detect\$4 or monitor\$4) near4 (position or distance)) and ((position or distance) near4 (compar\$4 or ((greater\$2 or more\$2 or higher\$4 or longer\$2) adj2 than))) and (closure or barrier or door).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 18:54

S28	14	(closure or door or barrier) and (actuator or motor) and ((electric\$4 or energiz\$4 or power\$4) near4 (closure or barrier or door)) and (pivot\$4 or verticle or vertical or overhead) and (tim\$4 or period or interval) and (automobile or vehicle) and ((sens\$4 or detect\$4 or monitor\$4) near4 (position or distance)) and ((position or distance) near4 (compar\$4 or ((greater\$2 or more\$2 or higher\$4 or longer\$2) adj2 than))) and (closure or barrier or door).ab. and clutch	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 18:57
S29	16	(closure or door or barrier) and (actuator or motor) and ((electric\$4 or energiz\$4 or power\$4) near4 (closure or barrier or door)) and (pivot\$4 or verticle or vertical or overhead) and (tim\$4 or period or interval) and (automobile or vehicle) and ((sens\$4 or detect\$4 or monitor\$4) near4 (position or distance)) and ((position or distance) near4 (compar\$4 or ((greater\$2 or more\$2 or higher\$4 or longer\$2) adj2 than))) and (closure or barrier or door).ab. and clutch	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 19:11
S31	18	(closure or door or barrier or liftgate) and (actuator or motor) and ((electric\$4 or energiz\$4 or power\$4) near4 (closure or barrier or door)) and (pivot\$4 or tilt\$4 or verticle or vertical or overhead) and (tim\$4 or period or interval) and (automobile or vehicle) and ((sens\$4 or detect\$4 or monitor\$4) near4 (position or distance)) and ((position or distance) near4 (compar\$4 or ((greater\$2 or more\$2 or higher\$4 or longer\$2) adj2 than))) and (closure or barrier or door or liftgate).ab. and clutch	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 19:25
S32	35	(closure or door or barrier or liftgate) and (actuator or motor) and ((electric\$4 or energiz\$4 or power\$4) near4 (closure or barrier or door)) and (pivot\$4 or tilt\$4 or verticle or vertical or overhead) and (tim\$4 or period or interval) and (automobile or vehicle) and ((sens\$4 or detect\$4 or monitor\$4) near4 (position or distance)) and ((position or distance or tim\$4) near4 (compar\$4 or exceed\$4 or ((greater\$2 or more\$2 or higher\$4 or longer\$2) adj2 than))) and (closure or barrier or door or liftgate).ab. and clutch	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 19:29
S33	21	("3008111"   "4703925"   "5319813"   "5404673"   "5670853"   "5832664"   "5979114"   "5982126"   "6092337"   "6198244"   "6237479"   "6318025"   "6347482"   "6378671"   "6405485"   "6423035"   "6468499"   "6539771"   "6546780"   "6575517").PN. OR ("6898900").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/01 19:26
S34	17	S32 not S31	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 19:28
S35	18	S33 and (tim\$4 or interval or period)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 19:34
S36	18	S33 and (tim\$4 or interval or period) and (position or distance )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 19:36
S37	18	S33 and (tim\$4 or interval or period) and (position\$4 or distance )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 19:37
S38	11	S33 and (tim\$4 or interval or period) and (position\$4 or distance ) and (error\$4 or fail\$4 or malfunction\$4 or misfunction\$4 or obstruction or obstruct\$4 or pinch\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 19:41
S39	13	S33 and (tim\$4 or interval or period) and (position\$4 or distance ) and (error\$4 or fail\$4 or malfunction\$4 or misfunction\$4 or obstruction or obstruct\$4 or pinch\$4 or safety)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 19:47
S40	2	S39 not S38	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 19:43

S42	10	(US-20010022049-\$ or US-20040107640-\$ or US-20040124662-\$).did. or (US-5018304-\$ or US-6904717-\$ or US-5982126-\$ or US-6898900-\$ or US-6318025-\$ or US-6575517-\$ or US-6092337-\$).did.	US-PGPUB; USPAT	OR	ON	2005/08/01 20:25
S43	34	("0581972"   "1544901"   "2757327"   "2843376"   "3237932"   "3284950"   "3874117"   "4289995"   "4599824"   "4750295"   "4782628").PN. OR ("5018304").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/01 19:46
S46	14	S43 and (tim\$4 or interval or period) and (position\$4 or distance) and (error\$4 or fail\$4 or malfunction\$4 or misfunction\$4 or obstruction or obstruct\$4 or pinch\$4 or safety or emergency)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 20:39
S47	13	"5982126" and gas	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 20:26
S53	94	((lift\$2 or tail\$2 or rear\$2) adj2 gate) or liftgate or tailgate or reargate or reardoor or ((rear\$2 or hing\$4 or hatch\$4) adj2 door)) and (motor or actuator) and (clutch or engag\$4 or engagement) and (tim\$4 or period or interval\$4) and (position\$4 or distanc\$4) and (error or fail\$4 or obstacle or pinch\$4 or obstruct\$4 or emergency or safety or (fail\$2 adj2 safe)) and ((sens\$4 or detect\$4 or monitor\$4) near4 (movement or position\$4 or distanc\$4)) and open\$4 and clos\$4 and ( (equal\$4 or compar\$4 or exceed\$4 or ((greater\$2 or more\$2 or higher\$4 or longer\$2) adj2 than)) near4 (position or distance or movement or mov\$4 or tim\$4)) and (((lift\$2 or tail\$2 or rear\$2) adj2 gate) or liftgate or tailgate or reargate or reardoor or door or closure or ((rear\$2 or hing\$4 or hatch\$4) adj2 door)).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 21:18
S54	67	((lift\$2 or tail\$2 or rear\$2) adj2 gate) or liftgate or tailgate or reargate or reardoor or ((rear\$2 or hing\$4 or hatch\$4) adj2 door)) and (motor or actuator) and (clutch or engag\$4 or engagement) and (tim\$4 or period or interval\$4) and (position\$4 or distanc\$4) and (error or fail\$4 or obstacle or pinch\$4 or obstruct\$4 or emergency or safety or (fail\$2 adj2 safe)) and ((sens\$4 or detect\$4 or monitor\$4) near4 (movement or position\$4 or distanc\$4)) and open\$4 and clos\$4 and ( (equal\$4 or compar\$4 or exceed\$4 or ((greater\$2 or more\$2 or higher\$4 or longer\$2) adj2 than)) near4 (position or distance or movement or mov\$4 or tim\$4)) and (((lift\$2 or tail\$2 or rear\$2) adj2 gate) or liftgate or tailgate or reargate or reardoor or door or closure or ((rear\$2 or hing\$4 or hatch\$4) adj2 door)).ab. and (speed or velocity)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 21:39
S56	45	"5448856"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 21:27
S57	20	"5448856" and clutch	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 21:27
S58	17	("3422572"   "3713472"   "3716945"   "4333269"   "4533901"   "4634945"   "4701684"   "4728141"   "4739585"   "4813303"   "4850140"   "5046283"   "5069000"   "5155937"   "5250849"   "5531498").PN. OR ("RE38400").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/01 21:31
S59	77	((lift\$2 or tail\$2 or rear\$2) adj2 gate) or liftgate or tailgate or reargate or reardoor or ((rear\$2 or hing\$4 or hatch\$4) adj2 door)) and (motor or actuator) and (clutch or engag\$4 or engagement) and (tim\$4 or period or interval\$4) and (position\$4 or distanc\$4) and (error or fail\$4 or obstacle or pinch\$4 or obstruct\$4 or emergency or safety or (fail\$2 adj2 safe)) and ((sens\$4 or detect\$4 or monitor\$4) near4 (movement or position\$4 or distanc\$4)) and open\$4 and clos\$4 and ( (equal\$4 or compar\$4 or exceed\$4 or ((greater\$2 or more\$2 or higher\$4 or longer\$2) adj2 than)) near4 (position or distance or movement or mov\$4 or tim\$4)) and (speed or velocity) and alarm\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/01 21:34

S60	108	("4420033" "4991476" "6134836" "6181094" "5634676" "4423799" "6164015" "6607236" "4535503" "5636814" "5878530" "6134837" "4375388" "4476997" "4575119" "4885954" "4919450" "6205710" "4281475" "4282615" "4308936" "4313282" "4316072" "4341033" "4357998" "4396336" "4491353" "4615654" "4623232" "4781354" "4846470" "4945677" "5429467" "5568704" "5575497" "5651162" "5664372" "5667136" "5669662" "5673951" "5797833" "5899089" "6115897" "6253133" "6352078" "6476517" "6778065" "3683710" "3918093" "4010502").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/12 17:17
S61	37	S60 and (error\$4 or fail\$4 or malfunction\$4 or misfunction\$4 or obstruction or obstruct\$4 or pinch\$4 or safety or emergency)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/12 17:18
S62	17	S60 and (error\$4 or fail\$4 or malfunction\$4 or misfunction\$4 or obstruction or obstruct\$4 or pinch\$4 or safety or emergency) and clutch	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/12 17:19
S63	15	S60 and (error\$4 or fail\$4 or malfunction\$4 or misfunction\$4 or obstruction or obstruct\$4 or pinch\$4 or safety or emergency) and clutch and (position or distance)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/12 17:25
S64	14	S60 and (error\$4 or fail\$4 or malfunction\$4 or misfunction\$4 or obstruction or obstruct\$4 or pinch\$4 or safety or emergency) and clutch and (position or distance) and (tim\$4 or period or interval)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/12 17:32
S65	46	(US-20010022049-\$ or US-20010035725-\$ or US-20030030299-\$ or US-20030046872-\$ or US-20040107640-\$ or US-20040124662-\$ or US-20040124798-\$).did. or (US-5018304-\$ or US-5448856-\$ or US-5468042-\$ or US-5531498-\$ or US-5851049-\$ or US-5851050-\$ or US-5896703-\$ or US-5982126-\$ or US-6092337-\$ or US-6297605-\$ or US-6318025-\$ or US-6367864-\$ or US-6398288-\$ or US-6533342-\$ or US-6557924-\$ or US-6575517-\$ or US-6600285-\$ or US-6676186-\$ or US-6719356-\$ or US-6734648-\$ or US-6755458-\$ or US-6794837-\$ or US-6799669-\$ or US-6870340-\$ or US-6883275-\$ or US-6898900-\$).did. or (US-6901704-\$ or US-6904717-\$ or US-RE36267-\$ or US-RE38400-\$ or US-6181094-\$ or US-6164015-\$ or US-6134837-\$ or US-6134836-\$ or US-5878530-\$ or US-5651162-\$ or US-5636814-\$ or US-4945677-\$ or US-4281475-\$).did.	US-PGPUB; USPAT	OR	ON	2005/08/12 17:32
S66	28	S65 and (error\$4 or fail\$4 or malfunction\$4 or misfunction\$4 or obstruction or obstruct\$4 or pinch\$4 or safety or emergency) and clutch and (position or distance) and (tim\$4 or period or interval)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/12 17:32